

V1002 MATERIAL SUMMARY

75 Durometer Black, FKM Per AMS-7276 and MIL-R-83248C

Request a Quote

FKM compounds are widely used in chemical, automotive, aerospace and industrial applications. These compounds offer excellent chemical and temperature resistance. Marco Rubber stocks all USA standard Viton O-Rings sizes, thousands of metric Viton O-Ring and non-standard sizes.

ABOUT #V1002

V1002 is a military specification FKM. There are many additional specialty compounds based on A, B, F, GLT, GFLT, LTFE and ETP polymer types. Please contact sales@marcorubber.com for assistance in selecting a specialized compound when increased resistance to temperature, chemicals, or physical properties is required.

FEATURES

- High temperature resistance.
- Excellent resistance to acids, fuels, mineral oils, greases, aliphatic, aromatic and chlorinated hydrocarbons, nonflammable hydraulic fluids (HFD) and many organic solvents and chemicals.
- Excellent resistance to aging and ozone.
- Low gas permeability, low compression set.

APPLICATION EXAMPLES

- · Vacuum applications
- Acidic applications
- Petroleum applications

ADDITIONAL INFORMATION

- Service Temperature of -15° to 437°F
- Cure System: Bisphenol
- Spec: AMS-7276 and MIL-R-83248C Type 1

Class 1

This information is accurate and reliable to the best of our knowledge. However, Marco Rubber makes no warranty, expressed or implied, that parts manufactured from this material will perform satisfactorily in the customer's application. It is the customer's responsibility to evaluate parts prior to use.

READY TO SEAL THE SUCCESS OF YOUR APPLICATION?

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PHYSICAL PROPERTIES

ORIGINAL PROPERTIES	ASTM 2000 Requirements	Typical Test Results
Hardness, Shore A	75 +/- 5	77
Color	Black	Black
Tensile Strength, psi (MPa)	1,400 min. (9.65)	2,262 (15.6)
Ultimate Elongation, %	125 min.	130
Specific Gravity, ASTM D297	As determined	1.84
TEMPERATURE RETRACTION – ASTM D1329	ASTM D2000	Typical Test Results
TR-10, Degrees F	+ 5 or colder	+3
HEAT RESISTANCE – AIR AGING ASTM D573 (70 hrs. @ 518°F)	ASTM D2000	Typical Test Results
Hardness Change, Shore A, ASTM D2240	-5 to +10	+3
Tensile Strength Change, %, ASTM D1414	-35 (max)	-17
Ultimate Elongation Change, %, ASTM D1414	-15 (max)	-3
Weight Loss, %, ASTM D297	10 max	3.6
COMPRESSION SET – ASTM D 395 Method B and ASTM D1414 (22 hrs. a 392°F)	ASTM D2000	Typical Test Results
Permanent Set %	15 (max)	10
Percentage °F original deflection, %	40 (max)	28
ARM-200 Fluid Immersion, ASTM D471 and ASTM D1414 (70 hrs. @ 392°F)	ASTM D2000	Typical Test Results
Hardness Change, points, ASTM D2240	-15 to 0	-7
Tensile Strength Change, %, ASTM D1414	-35 (max)	-12
Ultimate Elongation Change, %, ASTM D1414	-20 (max)	+18
Volume Change, %, ASTM D297	+1 to + 25	17
COMPRESSION SET – ASTM D395 Method B and ASTM D1414 (70 hrs. a 200°C)	ASTM D2000	Typical Test Results
Permanent Set %	10 (max)	8
FUEL B Immersion - ASTM D471 and ASTM D1414 (70 hrs. @ 75°F)	ASTM D2000	Typical Test Results
Hardness Change, Shore A, ASTM D2240	-15 to + 5	+3
Tensile Strength Change, %, ASTM D1414	-20 (max)	-7
Ultimate Elongation Change, %, ASTM D1414	-20 (max)	-8
Volume Change, %, ASTM D471	0 to + 5	1.3